



# ASCENDUM

## OIL ANALYSIS REPORT

|                 |               |
|-----------------|---------------|
| WEAR            | <b>NORMAL</b> |
| CONTAMINATION   | <b>NORMAL</b> |
| FLUID CONDITION | <b>NORMAL</b> |



Area  
**Ascendum Machinery/250 Hour CSA**  
Machine Id  
**VOLVO L120E 955 (S/N L120V64393)**  
Component  
**Front Axle**  
Fluid  
**VOLVO WB 102 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>ASC0008483</b>  | VCP418452   | VCP0004161  |
| Sample Date    |     | Client Info |           | <b>12 Jul 2024</b> | 19 Jul 2023 | 27 Sep 2022 |
| Machine Age    | hrs | Client Info |           | <b>7410</b>        | 6612        | 6067        |
| Oil Age        | hrs | Client Info |           | <b>7410</b>        | 0           | 6067        |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | 0           | 0           |
| Oil Changed    |     | Client Info |           | <b>Not Changd</b>  | Not Changd  | Not Changd  |
| Filter Changed |     | Client Info |           | <b>None</b>        | Not Changd  | N/A         |
| Sample Status  |     |             |           | <b>NORMAL</b>      | NORMAL      | NORMAL      |

### WEAR

All component wear rates are normal.

|              |        |             |      |             |      |      |
|--------------|--------|-------------|------|-------------|------|------|
| Iron         | ppm    | ASTM D5185m | >645 | <b>73</b>   | 61   | 53   |
| Chromium     | ppm    | ASTM D5185m | >8   | <b>0</b>    | <1   | <1   |
| Nickel       | ppm    | ASTM D5185m | >4   | <b>0</b>    | 0    | 0    |
| Titanium     | ppm    | ASTM D5185m |      | <b>0</b>    | 0    | 0    |
| Silver       | ppm    | ASTM D5185m |      | <b>0</b>    | 0    | 0    |
| Aluminum     | ppm    | ASTM D5185m | >100 | <b>1</b>    | 2    | 1    |
| Lead         | ppm    | ASTM D5185m | >5   | <b>0</b>    | 0    | 0    |
| Copper       | ppm    | ASTM D5185m | >50  | <b>10</b>   | 8    | 8    |
| Tin          | ppm    | ASTM D5185m | >4   | <b>0</b>    | 0    | 0    |
| Vanadium     | ppm    | ASTM D5185m |      | <b>0</b>    | 0    | 0    |
| White Metal  | scalar | *Visual     | NONE | <b>NONE</b> | NONE | NONE |
| Yellow Metal | scalar | *Visual     | NONE | <b>NONE</b> | NONE | NONE |

### CONTAMINATION

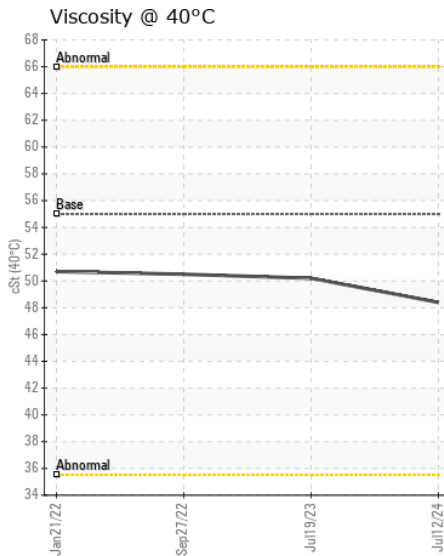
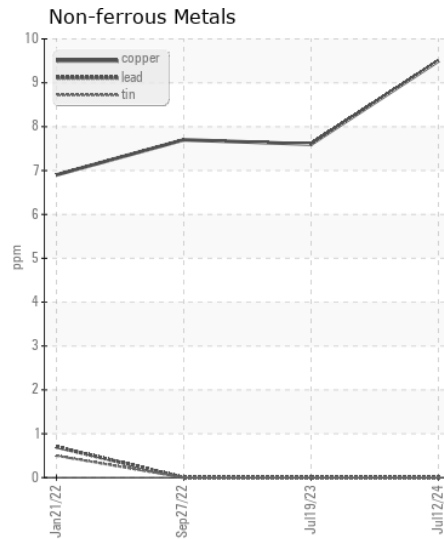
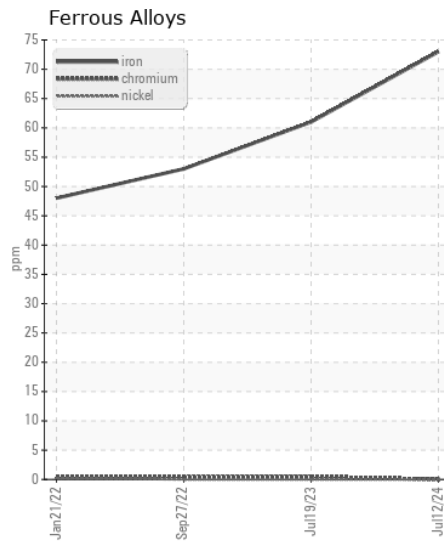
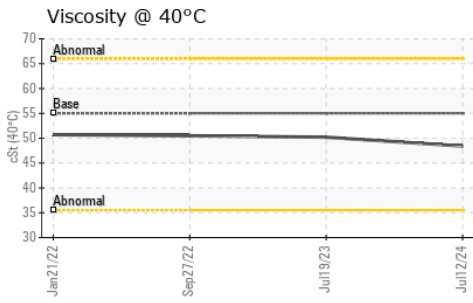
There is no indication of any contamination in the oil.

|                  |        |             |       |              |       |       |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon          | ppm    | ASTM D5185m | >50   | <b>21</b>    | 19    | 19    |
| Potassium        | ppm    | ASTM D5185m | >20   | <b>&lt;1</b> | <1    | 0     |
| Water            |        | WC Method   | >0.2  | <b>NEG</b>   | NEG   | NEG   |
| Silt             | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | NONE  |
| Debris           | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | NONE  |
| Sand/Dirt        | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | NONE  |
| Appearance       | scalar | *Visual     | NORML | <b>NORML</b> | NORML | NORML |
| Odor             | scalar | *Visual     | NORML | <b>NORML</b> | NORML | NORML |
| Emulsified Water | scalar | *Visual     | >0.2  | <b>NEG</b>   | NEG   | NEG   |

### FLUID CONDITION

The condition of the oil is acceptable for the time in service.

|             |     |             |    |              |      |      |
|-------------|-----|-------------|----|--------------|------|------|
| Sodium      | ppm | ASTM D5185m |    | <b>4</b>     | 2    | 0    |
| Boron       | ppm | ASTM D5185m |    | <b>122</b>   | 130  | 121  |
| Barium      | ppm | ASTM D5185m |    | <b>0</b>     | 0    | 0    |
| Molybdenum  | ppm | ASTM D5185m |    | <b>0</b>     | <1   | <1   |
| Manganese   | ppm | ASTM D5185m |    | <b>&lt;1</b> | <1   | <1   |
| Magnesium   | ppm | ASTM D5185m |    | <b>0</b>     | 14   | 12   |
| Calcium     | ppm | ASTM D5185m |    | <b>3366</b>  | 3514 | 3522 |
| Phosphorus  | ppm | ASTM D5185m |    | <b>1144</b>  | 1221 | 1103 |
| Zinc        | ppm | ASTM D5185m |    | <b>1256</b>  | 1414 | 1248 |
| Sulfur      | ppm | ASTM D5185m |    | <b>8877</b>  | 9993 | 8505 |
| Visc @ 40°C | cSt | ASTM D445   | 55 | <b>48.4</b>  | 50.2 | 50.5 |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ASC0008483  
**Lab Number** : 06236603  
**Unique Number** : 11125437  
**Test Package** : CONST

**Received** : 15 Jul 2024  
**Tested** : 16 Jul 2024  
**Diagnosed** : 16 Jul 2024 - Wes Davis

**TRIANGLE GRADING AND PAVING INC**  
 1521 Huffman Mill Rd  
 BURLINGTON, NC  
 US 27216  
 Contact: KAREN HILLIARD  
 khilliard@trianglegradingpaving.com  
 T: (336)584-1745  
 F: (336)584-0145

To discuss this sample report, contact Customer Service at 1-800-237-1369.

\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)